

Work Order ID 149823***149823***

Page 1

Wednesday, August 03, 2016 1:26:39 PM

Item ID: D206-642-522PHI Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Skidtube RH, High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible
Start Date: 7/5/2016 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 8/3/2016 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: DAS 21 Date: AUG 04 2016 Tooling: _____ Date: _____ Run Start ***NR1***
QC: 9-89 Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
DSI9749	A								
IIN-D206-642	Q	SEP 01 2016	DAS 6						1609-01
100	Document Control	0.00	9-89						
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile and create labels per PPP D206-642-522	CHG001							
									DAS 27 9-89 SEP 28 2016
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
									DAS 6 9-89 DAS 28 9-89 SEP 28 2016

B149821PH1

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation			Disposition		
			Completed By		
			Lead hand / Supervisor Approval Verification		
			QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 149823

Wednesday, August 03, 2016 1:26:39 PM

149823

Page 2

Item ID: D206-642-522PHI

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 8/3/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

NR1

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D206-642-522 Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.02							
Quality Control									

DAS
27
9-89

SEP 28 2016

DAS
28
9-89
DAS
27
9-89

SEP 28 2016

DAS
21
9-89

SEP 29 2016

JMF
16-9-28

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :						
Misidentified	☐	Past Due	☐							

Picklist Print

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Page 1

Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 14.09.23 NEW ISSUE LL VERF:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN5C15A *AN5C15A* Bolt		Purchased	No				Each	17.0000	**	1 135442		SEP 28 2016	DAS 28 6 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				ST337			17						
					M135058		17						
AN5C34A *AN5C34A* Bolt		Purchased	No				Each	92.0000	**	2		SEP 28 2016	DAS 28 6 9-89
				<u>Location</u>			<u>Loc Qty</u>	<u>Loc Code</u>					
				FG			2						
				18918			2						
				over004			64						
				m132381			8						
				m132522			8						
				m132674			8						
				m133332			8						
				m133917			8						
				m133920			8						
				m133921			8						
				m134131			8						
				ST336			26						
				m130033			2						
				m131855			8			2			
				m131856			8						
				m132169			8						
				m132381			0						
				m133917			0						
				m133920			0						

DQA: _____ Date: _____



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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER :							

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

D206-642-561PHI

Manufactured No

Each

0.0000

Start Qty: 1.00

Required Qty: 1.00

D206-642-561PHI

Replacement Skidtube,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

D206-648-013PHI

Manufactured No

Each

2.0000

D206-648-013PHI

Ground Handling Wheel Modification

D3672-7

Manufactured No

Each

1,111.000

D3672-7

Washer, Phenolic

NAS1149C0532R

Purchased No

Each

268.0000

NAS1149C0532R

WASHER

Location

Loc Qty

Loc Code

st392a

2

147486

2

24

Location

Loc Qty

Loc Code

FG

40

129987

25

133986

15

ST049

71

142572

71

ST051A

500

147220

500

ST057A

500

149431

500

8

Location

Loc Qty

Loc Code

GA

60

116513

60

ST266

208

m134756

18

m135056

190

DAS
28
9-89

SEP 28 2016

DAS
6
9-89

SEP 28 2016

DAS
28
9-89

DAS
6
9-89

SEP 28 2016

DAS
28
9-89

DAS
27
9-89

M135671

DAS
6
9-89

SEP 28 2016

DAS
28
9-89

DAS
27
9-89

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Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER :							

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

D2932-2PHI Manufactured No

Each 0.0000

Start Qty: 1.00

Required Qty: 1.00

D2932-2PHI

Saddle RH Out, 206

D2933-2PHI Manufactured No

Each 0.0000

D2933-2PHI

Saddle RH In, 206

D2938-2PHI Manufactured No

Each 0.0000

D2938-2PHI

Saddle RH Out, 206

D2939-2PHI Manufactured No

Each 0.0000

D2939-2PHI

Saddle RH In, 206

AN3C41A Purchased No

Each 254.0000

AN3C41A

Bolt

**** 149993 1 6 9-89 SEP 28 2016 DAS 28 9-89**
**** 149991 1 6 9-89 SEP 28 2016 DAS 28 9-89**
**** 149980 1 6 9-89 SEP 28 2016 DAS 28 9-89**
**** 149983 1 6 9-89 SEP 28 2016 DAS 28 9-89**
**** 8 8 9-89 SEP 28 2016 DAS 28 9-89**

Location

Loc Qty

Loc Code

FG 10
 122843 5
 124975 1
 m130081 4
 OVER002 225
 m132169 75
 m132381 75
 m132522 75
 ST347 19
 131651 19

DAS
 27
 9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

D2652

Manufactured No

Each

594.0000

Start Qty: 1.00

Required Qty: 1.00

D2652

Bushing

**

16
149386

DAS
6
9-89

DAS
28
9-89

SEP 28 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

FG	45	
31985	45	
ST009	144	
145959	144	
ST012a	405	
147559	0	
148315	405	

MS21043-3

Purchased No

Each

724.0000

**

20
135442

DAS
6
9-89

DAS
28
9-89

SEP 28 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

FG	80	
103691	80	
FP001	11	
m130673	11	
GA	237	
m133990	237	
ST302	307	
m134861	7	
m135058	300	
ST304	89	
m131340	89	

MS21043-3

Nut

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
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								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :						
Misidentified	☐	Past Due	☐							

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

AN5C11A

Purchased

No

Each

Start Qty: 1.00

Required Qty: 1.00

92.0000

**

AN5C11A

Bolt

DAS
6
9-89

SEP 28 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

4

103715

4

over003

40

M135058

40

ST338

48

M131305

10

M131624

38

AN4C6A

Purchased

No

Each

293.0000

**

AN4C6A

Bolt

12

135470

DAS
6
9-89

SEP 28 2016

DAS
28
9-89

Location

Loc Qty

Loc Code

FG

14

103344

4

121657

10

OVER002

50

m135297

50

ST345

229

m134955

129

m135127

100

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Shop Packet Print

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DQA: _____ Date: _____



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Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

D3672-3

Manufactured No

Each

Start Qty: 1.00
1,416.000

Required Qty: 1.00

D3672-3

Washer, Phenolic

**

24
149295x21

SEP 28 2016

DAS 28 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

FG	100	
133083	52	
134449	48	
FP001	213	
132639	213	
ST049	103	
146277	103	
ST051A	1000	
148691	500	
149409	500	

DAS 6 9-89

NAS1149C0432R

Purchased No

Each

1,645.000

NAS1149C0432R

WASHER

**

24
135344

SEP 28 2016

DAS 28 9-89

DAS 27 9-89

DAS 27 9-89

Location

Loc Qty

Loc Code

GA	800	
m125807	427	
m134676	373	
ST266	845	
m135297	845	

DAS 6 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

MS21043-4

Purchased

No

Each

545.0000

Start Qty: 1.00

Required Qty: 1.00

MS21043-4

Nut

**

12

135407

SEP 28 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

FG	40	
104603	40	
GA	17	
m132803	17	
OVER007	300	
m134754	300	
ST302	188	
m134943	188	

D3456-1

Manufactured

No

Each

71.0000

D3456-1

Washer

**

1

SEP 28 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

FG	7	
25701	7	
ST037	64	
144158	1	
147066	13	
147799	50	

D3457-1

Manufactured

No

Each

96.0000

D3457-1

Washer

**

2

SEP 28 2016

DAS 28
6 9-89

DAS 27
9-89

Location

Loc Qty

Loc Code

FG	10	
32409	10	
ST037	86	
145625	86	

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DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

D2712

Manufactured No

Each

Start Qty: 1.00
299.0000

Required Qty: 1.00

D2712

Set Screw

★★

DAS
6
9-89

DAS
28
9-89

SEP 2 8 2016

Location	Loc Qty	Loc Code
FG	55	
29962	55	
ST009	94	
140532	9	
141690	75	
89929	10	
ST012a	150	
147570	50	
147801	50	
149148	50	

DAS
27
9-89

D2934

Manufactured No

Each

46.0000

D2934

Saddle Spacer

★★

DAS
6
9-89

DAS
28
9-89

SEP 2 8 2016

Location	Loc Qty	Loc Code
FG	6	
31929	6	
ST014	40	
147488	40	

DAS
27
9-89

D2935

Manufactured No

Each

57.0000

D2935

Saddle Spacer

★★

DAS
6
9-89

DAS
28
9-89

SEP 2 8 2016

Location	Loc Qty	Loc Code
FG	6	
31793	6	
ST014	51	
146008	21	
147574	30	

DAS
27
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

AN3C36A

Purchased

No

Each

Start Qty: 1.00
266.0000

Required Qty: 1.00

AN3C36A

Bolt

**

DAS
6
9-89

DAS
28
9-89

Location	Loc Qty	Loc Code
FG	47	
101261	4	
122204	2	
m131367	1	
m132169	40	
FP001	80	
m131856	1	
m132381	79	
OVER002	139	
m133916	80	
m135310	59	

SEP 28 2016

DAS
27
9-89

AN3C35A

Purchased

No

Each

29.0000

AN3C35A

Bolt

**

DAS
6
9-89
SEP 28 2016

DAS
28
9-89

Location	Loc Qty	Loc Code
FG	4	
18914	4	
ST347	25	
M133694	25	

DAS
27
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER :							

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

NAS1149C0332R

Purchased

No

Each

Start Qty: 1.00
4,108.000

Required Qty: 1.00

NAS1149C0332R
WASHER

**

24

DAS 28
6 9-89
SEP 28 2016

Location

Loc Qty

Loc Code

FP001

918

m135046

918

GA

141

m133284

141

ST266

3049

m134736

1049

m135274

2000

24

D3672-1

Manufactured

No

Each

820.0000

D3672-1
Washer, Phenolic

**

24

DAS 28
6 9-89
SEP 28 2016

Location

Loc Qty

Loc Code

FG

10

85222

10

FP001

454

112218

4

134785

450

ST049

356

147077

356

24

D3396-3

Manufactured

No

Each

23.0000

D3396-3
Bushings

**

2

DAS 28
6 9-89
SEP 28 2016

Location

Loc Qty

Loc Code

ST034

23

147439

23

2

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

Picklist Print

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Work Order ID: 149823

149823

Parent Item: D206-642-522PHI

D206-642-522PHI

Parent Item Name: Skidtube RH,High Gear, Standard Wearplates, DART (Apical) Tri-Bag Float Compatible

Start Date: 7/5/2016

Required Date: 8/3/2016

AN5C35A Purchased No Each 55.0000 Start Qty: 1.00 Required Qty: 1.00
AN5C35A ** 1
 Bolt

DAS 27 9-89
Location Loc Qty Loc Code
 ST336 55
 M129871 55

AN5C32A Purchased No Each 111.0000
AN5C32A ** 2
 BOLT

DAS 27 9-89
Location Loc Qty Loc Code
 FG 4
 18918 4
 over004 100
 131650 100
 ST336 7
 m132102 7

MS21043-5 Purchased No Each 130.0000
MS21043-5 ** 4
 Nut

DAS 27 9-89
Location Loc Qty Loc Code
 FG 20
 101418 20
 GA 76
 116548 76
 ST302 34
 m135157 34

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D206-642 REV. Q AND INSTRUCTIONS FOR CONTINUED
AIRWORTHINESS ICA-D206-642 REV. 6 OR LATER APPROVED REVISION

REF. FAA STC: SA00475SE
REF. TCCA STC: SH98-4
REF. EASA STC: EASA.IM.R.S.01320

PURPOSE:

TO ADD D206-642-521/-522 SKIDTUBE INSTALLATIONS WITH WEARPADS ONLY AS
PREFERRED BY SOME CUSTOMERS.

PARTS LIST:

PARTS LIST OF SECTION 4.7 OF IIN-D206-642 REV. Q AND SECTION 32.17 OF ICA-D206-642
REV. 6 IS AMENDED AS SHOWN BELOW TO REFLECT THE ADDITION OF D206-642-521/-522/-
561 CONFIGURATIONS.

ITEM	Qty -521	Qty -522	Qty -561	Part Number	Description
	X			D206-642-521	FLOAT SKIDTUBE INSTALLATION, LH
		X		D206-642-522	FLOAT SKIDTUBE INSTALLATION, RH
	1	1	X	D206-642-561	FLOAT SKIDTUBE
	1	1		D206-648-013	GROUND HANDLING KIT
1			1	D3274-045	SKIDTUBE ASSEMBLY
3			1	D2646	* AFT CAP (1)
4			2	AN3C4A	* BOLT (1)
5A			2	NAS1149C0332R	* WASHER (1)
5B			2	D3672-1	* WASHER (1)
20A			9	D3537-9	* WEARPAD (1)
21A			1	D3537-11	* WEARPAD (1)
26A			40	AN3C4A	* BOLT (1)
26B			40	NAS1149C0332R	* WASHER (1)
26C			40	ALS7-1032-130	* INSERT (1)
34			1	MS27039C4-06	* SCREW (1)
35			1	NAS1149C0463	* WASHER (1)
6	1			D2932-1	SADDLE, FWD OUT, LH
6		1		D2932-2	SADDLE, FWD OUT, RH
7	1			D2933-1	SADDLE, FWD IN, LH
7		1		D2933-2	SADDLE, FWD IN, RH
8	1			D2938-1	SADDLE, AFT OUT, LH
8		1		D2938-2	SADDLE, AFT OUT, RH
9	1			D2939-1	SADDLE, AFT IN, LH
9		1		D2939-2	SADDLE, AFT IN, RH

A	NEW ISSUE	AK	16.05.30
REV.	DESCRIPTION	BY	DATE
DESIGN	AK	DART AEROSPACE USA, INC. EUGENE, OR DRAWING NO. DSI 9749 REV. A SHEET 1 OF 3 SCALE ADD -521/-522/-561 SKIDTUBES NTS COPYRIGHT © 2016 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	
DRAWN	AK		
CHECKED	AK		
MFG. APPR.	N/A		
APPROVED	AK		
DE APPR.	AK		
DATE	16.05.30		

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WITHOUT NOTICE
WORK ORDER
NO. 149823445
16-08-04

ITEM	Qty -521	Qty -522	Qty -561	Part Number	Description
	X			D206-642-521	FLOAT SKIDTUBE INSTALLATION, LH
		X		D206-642-522	FLOAT SKIDTUBE INSTALLATION, RH
			X	D206-642-561	FLOAT SKIDTUBE
10	8	8		AN3C41A	BOLT
11	16	16		D2652	BUSHING
12A	8	8		MS21043-3	NUT
12B	16	16		D3672-7	WASHER
13	4	4		AN5C11A (or AN5C12A)	* BOLT (2)
14	4	4		AN5C11A (or AN5C13A)	* BOLT (2)
15A	8	8		NAS1149C0532R	WASHER
15B	8	8		D3672-7	WASHER
16	12	12		AN4C6A	BOLT
17A	24	24		D3672-3	WASHER
17B	24	24		NAS1149C0432R	WASHER
18	12	12		MS21043-4	NUT
37	10	10		D2712	SET SCREW
38	2	2		D2934	SADDLE SPACER
39	2	2		D2935	SADDLE SPACER
50	9	9		AN3C36A	BOLT
51	3	3		AN3C35A	BOLT
52	24	24		NAS1149C0332R	WASHER
53	24	24		D3672-1	WASHER
54	12	12		MS21043-3	NUT
55	2	2		D3396-3	SPACER
56A	1	1		AN5C35A	BOLT
56B	1	1		AN5C15A	BOLT
60	2	2		AN5C32A	BOLT
61	2	2		AN5C34A	BOLT
62	4	4		MS21043-5	NUT

NOTES: (1) DENOTES THAT PART IS INCLUDED WITH D3274-045 ASSEMBLY ABOVE

(2) CHOICE OF BOLT WILL DEPEND ON CROSSTUBE (SEE INSTALLATION PROCEDURE)

DESIGN	AK	DART AEROSPACE USA, INC. EUGENE, OR	
DRAWN	AK		
CHECKED	AK	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9749	SHEET 2 OF 3
APPROVED	AK	TITLE	SCALE
DE APPR.	AK	ADD -521/-522/-561 SKIDTUBES NTS	
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INSTALLATION:

INSTALL D206-642-521/-522 SKIDTUBE INSTALLATIONS PER SECTION 3.3 OF IIN-D206-642 REV. Q.

WEIGHT AND BALANCE:

THE WEIGHT AND BALANCE TABLES IN SECTION 5.2.1/5.2.2 OF IIN-D206-642 REV. Q AND SECTION 3.10.2 OF ICA-D206-642 REV. 6 ARE AMENDED TO ADD D206-642-521/-522 CONFIGURATIONS AS SHOWN BELOW:

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-642-521 206L/L1/L3/L4 HIGH FLOAT, LH	36.4 lb 16.5 kg	104.1 in 2.64 m	3789 in lb 43.6 m kg	-43.0 in -1.09 m	-1565 in lb -18.0 m kg
D206-642-522 206L/L1/L3/L4 HIGH FLOAT, RH	36.4 lb 16.5 kg	104.1 in 2.64 m	3789 in lb 43.6 m kg	43.0 in 1.09 m	1565 in lb 18.0 m kg
D206-642-521 407 HIGH FLOAT, LH	36.4 lb 16.5 kg	104.1 in 2.64 m	3789 in lb 43.6 m kg	-47.0 in -1.19 m	-1711 in lb -19.6 m kg
D206-642-522 407 HIGH FLOAT, RH	36.4 lb 16.5 kg	104.1 in 2.64 m	3789 in lb 43.6 m kg	47.0 in 1.19 m	1711 in lb 19.6 m kg

MAINTENANCE:

THE NEW D206-642-521/-522/-561 FLOAT SKIDTUBES SHOULD BE MAINTAINED PER ICA-D206-642 REV. 6, OR LATER APPROVED REVISION.

DESIGN	AK	DART AEROSPACE USA, INC. EUGENE, OR	
DRAWN	AK		
CHECKED	AK	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9749	SHEET 3 OF 3
APPROVED	AK	TITLE	SCALE
DE APPR.	AK	ADD -521/-522/-561 SKIDTUBES	NTS
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ITEM	Qty -521	Qty -522	Qty -561	Part Number	Description
	X			D206-642-521	FLOAT SKIDTUBE INSTALLATION, LH
		X		D206-642-522	FLOAT SKIDTUBE INSTALLATION, RH
			X	D206-642-561	FLOAT SKIDTUBE
10	8	8		AN3C41A	BOLT
11	16	16		D2652	BUSHING
12A	8	8		MS21043-3	NUT
12B	16	16		D3672-7	WASHER
13	4	4		AN5C11A (or AN5C12A)	* BOLT (2)
14	4	4		AN5C11A (or AN5C13A)	* BOLT (2)
15A	8	8		NAS1149C0532R	WASHER
15B	8	8		D3672-7	WASHER
16	12	12		AN4C6A	BOLT
17A	24	24		D3672-3	WASHER
17B	24	24		NAS1149C0432R	WASHER
18	12	12		MS21043-4	NUT
37	10	10		D2712	SET SCREW
38	2	2		D2934	SADDLE SPACER
39	2	2		D2935	SADDLE SPACER
50	9	9		AN3C36A	BOLT
51	3	3		AN3C35A	BOLT
52	24	24		NAS1149C0332R	WASHER
53	24	24		D3672-1	WASHER
54	12	12		MS21043-3	NUT
55	2	2		D3396-3	SPACER
56A	1	1		AN5C35A	BOLT
56B	1	1		AN5C15A	BOLT
60	2	2		AN5C32A	BOLT
61	2	2		AN5C34A	BOLT
62	4	4		MS21043-5	NUT

NOTES: (1) DENOTES THAT PART IS INCLUDED WITH D3274-045 ASSEMBLY ABOVE

(2) CHOICE OF BOLT WILL DEPEND ON CROSSTUBE (SEE INSTALLATION PROCEDURE)

DESIGN	AK	DART AEROSPACE USA, INC. EUGENE, OR	
DRAWN	AK		
CHECKED	AK	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9749	SHEET 2 OF 3
APPROVED	AK	TITLE	SCALE
DE APPR.	AK	ADD -521/-522/-561 SKIDTUBES	NTS
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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D206-642 REV. Q AND INSTRUCTIONS FOR CONTINUED
AIRWORTHINESS ICA-D206-642 REV. 6 OR LATER APPROVED REVISION

REF. FAA STC: SA00475SE
REF. TCCA STC: SH98-4
REF. EASA STC: EASA.IM.R.S.01320

PURPOSE:

TO ADD D206-642-521/-522 SKIDTUBE INSTALLATIONS WITH WEARPADS ONLY AS
PREFERRED BY SOME CUSTOMERS.

PARTS LIST:

PARTS LIST OF SECTION 4.7 OF IIN-D206-642 REV. Q AND SECTION 32.17 OF ICA-D206-642
REV. 6 IS AMENDED AS SHOWN BELOW TO REFLECT THE ADDITION OF D206-642-521/-522/-
561 CONFIGURATIONS.

ITEM	Qty -521	Qty -522	Qty -561	Part Number	Description
	X			D206-642-521	FLOAT SKIDTUBE INSTALLATION, LH
		X		D206-642-522	FLOAT SKIDTUBE INSTALLATION, RH
	1	1	X	D206-642-561 561-1	FLOAT SKIDTUBE
	1	1		D206-648-013	GROUND HANDLING KIT
1			1	D3274-045	SKIDTUBE ASSEMBLY
3			1	D2646	* AFT CAP (1)
4			2	AN3C4A	* BOLT (1)
5A			2	NAS1149C0332R	* WASHER (1)
5B			2	D3672-1	* WASHER (1)
20A			9	D3537-9	* WEARPAD (1)
21A			1	D3537-11	* WEARPAD (1)
26A			40	AN3C4A	* BOLT (1)
26B			40	NAS1149C0332R	* WASHER (1)
26C			40	ALS7-1032-130	* INSERT (1)
34			1	MS27039C4-06	* SCREW (1)
35			1	NAS1149C0463	* WASHER (1)
6	1			D2932-1	SADDLE, FWD OUT, LH
6		1		D2932-2	SADDLE, FWD OUT, RH
7	1			D2933-1	SADDLE, FWD IN, LH
7		1		D2933-2	SADDLE, FWD IN, RH
8	1			D2938-1	SADDLE, AFT OUT, LH
8		1		D2938-2	SADDLE, AFT OUT, RH
9	1			D2939-1	SADDLE, AFT IN, LH
9		1		D2939-2	SADDLE, AFT IN, RH

A	NEW ISSUE	AK	16.05.30
REV.	DESCRIPTION	BY	DATE
DESIGN	AK	DART AEROSPACE USA, INC. EUGENE, OR	
DRAWN	AK		
CHECKED	<i>[Signature]</i>	REV. A SHEET 1 OF 3	
MFG. APPR.	N/A		
APPROVED	<i>[Signature]</i>	SCALE ADD -521/-522/-561 SKIDTUBES NTS	
DE APPR.	<i>[Signature]</i>		
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